

AN ORDINANCE 2006-08-31-0961

**AMENDING CHAPTER 24, PLUMBING, OF THE CITY CODE OF SAN ANTONIO, TEXAS, BY PROVIDING FOR A PROCESS OF PLUMBING CODE ADOPTION; ADOPTING THE 2006 EDITION OF THE UNIFORM PLUMBING CODE; PROVIDING FOR LOCAL AMENDMENTS TO SAID CODE; PROVIDING FOR PENALTIES; PROVIDING FOR PUBLICATION; AND PROVIDING AN EFFECTIVE DATE.**

\* \* \* \* \*

**WHEREAS**, the Department of Development Services currently enforces the 2003 edition of the Uniform Plumbing Code published by the International Association of Plumbing and Mechanical Officials and the local amendments thereto; and

**WHEREAS**, the 2006 edition of the Uniform Plumbing Code (UPC) has been published; and

**WHEREAS**, the Plumbing Appeals and Advisory Board and city staff have conducted public meetings regarding the adoption of the 2006 UPC and amendments thereto; and

**WHEREAS**, the Plumbing Appeals and Advisory Board and the Department of Development Services recommend approval and adoption of the 2006 UPC and its local amendments; and

**WHEREAS**, all prerequisites required by state statute and the City Charter for adoption of this code and its amendments have been satisfied; **NOW THEREFORE**

**BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:**

**SECTION 1.** Chapter 24, Article I. In General, of the City Code of San Antonio, Texas, is amended by adding section 24-1 "Title of Chapter" and section 24-2 "Purpose of Plumbing Code and process for technical code adoption." The additions are delineated by underlining (adding) and renumbering the reserved sections as follows:

**Sec. 24-1. Title of Chapter.**

- a) This chapter shall be known as the Plumbing Code. Unless otherwise indicated by its use or context, the term "this code" shall refer to this chapter.

**Sec. 24-2. Purpose of Plumbing Code and process for technical code adoption.**

- a) Purpose. This code, including any adopted technical code and amendments, shall be construed to provide minimum standards to safeguard public safety, health and general welfare.
- b) Process for technical code adoption.
  - a. Within 180 days of the availability for local public review and purchase of the adopted state plumbing codes promulgated by the International Code Council and the International Association of Plumbing and Mechanical Officials, the Plumbing Appeals and Advisory Board ("Board") as defined and described below, may, after conducting public hearings, review and select a plumbing code for City Council consideration and possible adoption, and may develop, after further public hearings, local amendments to the plumbing code for recommendation to the City Council. The 180 day timeframe may be extended for due cause.
  - b. Once the Board has voted to recommend a plumbing code and any local amendments for City Council consideration, the Director of Development Services shall have the responsibility to make timely recommendations of the proposed code and any local amendments to the City Council.
  - c. Upon City Council action to adopt the proposed plumbing code and any local amendments, as evidenced by the passage of a duly authorized ordinance, and after the requisite time period has passed as required by law, the proposed plumbing code and any corresponding local amendments shall be in effect as the official plumbing code for the City of San Antonio.

**Sec. 24-3 ~~Sec. 24-1~~ through 24-10 reserved.**

**SECTION 2.** Chapters 1 thru 16 and Appendices A, B, D, E, I, K and L, of the 2006 Uniform Plumbing Code (UPC), are hereby adopted to replace the 2003 Uniform Plumbing Code. Those same chapters of the 2006 Uniform Plumbing Code are incorporated herein as fully as if set out at length. Chapter 24, Article II, Section 24-11 of the City Code of San Antonio, Texas is amended by adding the language that is underlined (added) and deleting the language that is stricken (~~deleted~~) as follows:

**Sec. 24-11. Uniform Plumbing Code adopted.**

Chapters 1 thru 16 and Appendixes A, B, D, E, I, K and L of the The International Association of Plumbing and Mechanical Officials' 2006 edition ~~2003 Edition~~ of the Uniform Plumbing Code, ~~with new local amendments, as set out in section 24-12 below, are~~ hereby adopted as the plumbing code of the city. ~~Three (3) copies of the Uniform Plumbing Code are incorporated herein by reference and have been filled in~~

~~the office of the city clerk pursuant to section 17 of the City Charter for permanent record and inspection.~~

**SECTION 3.** Chapter 24 of the City Code of San Antonio, Texas is hereby amended by adding local amendments to the UPC as follows:

**Sec. 24-12. Amendments.**

~~The following are amendments to the 2003 Uniform Plumbing Code adopted in Section 24-11 above:~~

*Section 102.1 Authority Having Jurisdiction* of the Uniform Plumbing Code is amended to read as follows:

**102.1 Authority Having Jurisdiction.**

The Authority Having Jurisdiction shall be the authority duly appointed to enforce this code and will be referred to herein as the director of development services. Whenever the term Authority Having Jurisdiction appears in the Uniform Plumbing Code it shall mean the Director of Development Services.

~~102.1 Administrative Authority is amended to read as follows:~~

~~The administrative authority shall be the authority duly appointed to enforce this code and will be referred to herein as the director of development services.~~

*Section 102.2 Duties and Powers of the Authority Having Jurisdiction* and *Section 102.2.1* of the Uniform Plumbing Code are amended to read as follows:

**102.2 Duties and Powers of the Director of Development Services Authority Having Jurisdiction.**

**102.2.1.** The director of development services ~~Authority Having Jurisdiction~~ may appoint such assistants, deputies, inspectors or other employees as are necessary to carry out the function of the department and this code. The plumbing division shall be a part of the development services department. No employee connected with the plumbing division, except a member of the board established by this code shall be financially interested in the furnishing of labor, material, or appliances for construction, alteration or maintenance of plumbing installations in a building or in the making of plans or specifications thereof, unless such employee is the owner of such building. No such employee shall engage in any work, which is inconsistent with his duties or with the interest of the division.

~~102.2.1 Duties and Powers of Administrative Authority is amended to read as follows:~~

~~The director of development services may appoint such assistants, deputies, inspectors or other employees as are necessary to carry out the function of the department and this code. The plumbing division shall be a part of the development services department. No employee connected with the plumbing division, except a member of the board established by this code shall be financially interested in the furnishing of labor, material, or appliances for construction, alteration or maintenance of plumbing installations in a building or in the making of plans or specifications thereof, unless such employee is the owner of such building. No such employee shall engage in any work, which is inconsistent with his duties or with the interest of the division.~~

*Section 102.3.1 Violations* of the Uniform Plumbing Code is amended by adding a sentence to the end of the section as follows:

**102.3.1 Violations.** It shall be unlawful for any person, firm, or corporation to erect, construct, enlarge, alter, repair, move, improve, remove, convert, demolish, equip, use, or maintain any plumbing or permit the same to be done in violation of this code. Obtaining a permit in the name of a person authorized by law to do plumbing work, and thereafter permitting a person not licensed by law, or not employed by same person to do such work, is a violation of the state licensing law and such violations shall be reported to the Texas State Board of Plumbing Examiners with a recommendation that the permit holder's license be revoked or suspended.

~~102.3.1 is amended by adding the following:~~

~~Obtaining a permit in the name of a person authorized by law to do plumbing work, and thereafter permitting a person not licensed by law, or not employed by same person to do such work, is a violation of the state licensing law and such violations shall be reported to the Texas State Plumbing Examiners' Board with a recommendation that the permit holder's license be revoked or suspended.~~

*Section 102 Organization and Enforcement* of the Uniform Plumbing Code is amended by adding *Sections 102.4, 102.4.1, 102.4.2, 102.4.3, and 102.4.4* as follows:

#### **102.4 Plumbing Appeals and Advisory Board**

**102.4.1** There is hereby appointed a plumbing appeals and advisory board. The Board shall consist of 11 members, the director of development services or his designated representative, a representative from the Metropolitan Health District, a representative from the San Antonio Water System and a representative from City Public Service, the latter 4 being ex-officio, non-voting members.

**102.4.2** The appointive members shall be appointed by the city council for two-year terms. The appointive members will consist of one homebuilder, one architect, two master plumbers, one of whom shall represent the open shop segment of the industry

and one of whom shall represent the union shop segment; two journeyman plumbers, one of whom shall represent the open shop segment and one of whom shall represent the union segment; one practicing professional mechanical engineer, one plumbing contractor and three laymen/consumers.

102.4.3 The members shall elect a chairman and vice-chairman from their own membership who shall serve a one-year term, but no person shall serve as chairman for more than two consecutive years, except with unanimous consent of the Board.

102.4.4. Common Sense. This Code shall be governed by the Doctrine of Common Sense. An installation or design that is found not to comply with the provisions of this code is not a violation of this code if the installation conforms to the intent of this code as determined by the Plumbing Appeals and Advisory Board. If such determination should be applicable to plumbing installations in general, the Building Official shall publish the determination and include it in the next adoption of local amendments.

*102 is amended by adding 102.4 to read as follows:*

*102.4 Plumbing Appeals and Advisory Board*

~~102.4.1 There is hereby appointed a plumbing appeals and advisory board. The Board shall consist of 11 members, the director of development services or his designated representative, a representative from the Metropolitan Health District, a representative from the San Antonio Water System and a representative from City Public Service, the latter 4 being ex-officio, non-voting members.~~

~~102.4.2 The appointive members shall be appointed by the city council for two-year terms. The appointive members will consist of one homebuilder, one architect, two master plumbers, one of whom shall represent the open shop segment of the industry and one of whom shall represent the union shop segment; two journeyman plumbers, one of whom shall represent the open shop segment and one of whom shall represent the union segment; one practicing professional mechanical engineer, one plumbing contractor and three laymen/consumers.~~

~~102.4.3 The members shall elect a chairman and vice chairman from their own membership who shall serve a one-year term, but no person shall serve as chairman for more than two consecutive years, except with unanimous consent of the Board.~~

~~102.4.4. Common Sense. This Code shall be governed by the Doctrine of Common Sense. An installation or design that is found not to comply with the provisions of this code is not a violation of this code if the installation conforms to the intent of this code as determined by the Plumbing Appeals and Advisory Board. If such determination should be applicable to plumbing installations in general, the Building Official shall publish the determination and include it in the next adoption of local amendments.~~

*Section 102 Organization and Enforcement of the Uniform Plumbing Code is amended by adding Sections 102.5, 102.5.1, 102.5.2, and 102.5.3 as follows:*

**102.5 Powers and Duties of the Plumbing Appeals and Advisory Board**

102.5.1 The board shall have jurisdiction over all appeals from decisions of the director, which relate to plumbing installations and shall determine the intent and meaning of the provisions of this code. The board shall determine which materials and/or methods are equally good and desirable to those permitted by this code and permit the use of same in accordance with this code. The board shall have no power to otherwise modify or change this code. The director shall comply with and enforce the decisions of the board.

102.5.2 Appeals from the board's action. Any action of the plumbing appeals and advisory board may be appealed by written petition for a hearing before City Council. Such petition must be filed with such board and the city clerk within 7 days of the board's action.

102.5.3 Whenever the board determines that any provision of this code is inadequate, incorrect or obsolete, it shall recommend a corrective amendment to the city council for adoption.

*102 is amended by adding 102.5 to read as follows:*

*~~102.5 Powers and Duties of the Plumbing Appeals and Advisory Board~~*

~~102.5.1 The board shall have jurisdiction over all appeals from decisions of the director, which relate to plumbing installations and shall determine the intent and meaning of the provisions of this code. The board shall determine which materials and/or methods are equally good and desirable to those permitted by this code and permit the use of same in accordance with this code. The board shall have no power to otherwise modify or change this code. The determinations by the board shall be final and binding on all parties, and the director shall comply with and enforce the decisions of the board.~~

~~102.5.2 Whenever the board determines that any provision of this code is inadequate, incorrect or obsolete, it shall recommend a corrective amendment to the city council for adoption.~~

*Section 102 Organization and Enforcement of the Uniform Plumbing Code is amended by adding Sections 102.6, 102.6.1, 102.6.2, and 102.6.3 as follows:*

**102.6 Meetings and Procedures**

102.6.1 Regular meetings of the board shall be held on the second Wednesday of each month when necessary for the purpose of hearing appeals and rendering interpretations of the plumbing code and hearing applications of the proposed use of new materials and new methods of installation. The Board by two thirds (2/3) majority vote of the members present, may change the day of the meeting.

102.6.2 Special meetings may be called by the Chairman as needed.

102.6.3 Six members shall constitute a quorum. A majority of members present and voting in the affirmative shall be required to pass a motion.

*102 is amended by adding 102.6 to read as follows:*

*~~102.6 Meetings and Procedures~~*

~~102.6.1 Regular meetings of the board shall be held on the second Wednesday of each month when necessary for the purpose of hearing appeals and rendering interpretations of the plumbing code and hearing applications of the proposed use of new materials and new methods of installation. The Board by 2/3rds majority vote of the members present, may change the day of the meeting.~~

~~102.6.2 Special meetings may be called by the Chairman as needed.~~

~~102.6.3 Six members shall constitute a quorum. A majority of members present and voting in the affirmative shall be required to pass a motion.~~

*Section 102 Organization and Enforcement of the Uniform Plumbing Code is amended by adding Section 102.7 as follows:*

102.7 Appeals. Appeals shall be made in writing and shall be submitted no later than the first Wednesday of the month. Appellant may appear in person or be represented by another person or persons and may introduce evidence to support the appellant's claims. The appellant shall cause to be made at the appellant's own expense any tests or research required by the board to substantiate his claims. Each application to the board shall be accompanied by a filing fee as set forth in the fee schedule adopted by the city of San Antonio.

*102 is amended by adding 102.7 to read as follows:*

*~~102.7 Appeals~~*

~~Appeals shall be made in writing and shall be submitted no later than the first Wednesday of the month. Appellant may appear in person or be represented by another person or persons and may introduce evidence to support the appellant's claims. The appellant shall cause to be made at the appellant's own expense any tests or research required by the board to substantiate his claims. Each application to the~~

~~board shall be accompanied by a filing fee as set forth in the fee schedule adopted by the city of San Antonio.~~

*Section 102 Organization and Enforcement* of the Uniform Plumbing Code is amended by adding *Section 102.8* as follows:

**102.8 Illegal Work.** Any person in the business of plumbing whose work does not conform to the rules and regulations as set forth in this code, or whose workmanship or materials are of inferior quality, shall, upon notice from the director, make necessary changes or corrections so as to conform to this code. If work has not been changed or corrected within 10 days, the director may then refuse to issue additional permits to such person until such work has fully complied with the rules and regulations of this code.

~~102 is amended by adding 102.8 to read as follows:~~

~~*102.8 Illegal Work*~~

~~Any person in the business of plumbing whose work does not conform to the rules and regulations as set forth in this code, or whose workmanship or materials are of inferior quality, shall, upon notice from the director, make necessary changes or corrections so as to conform to this code. If work has not been changed or corrected within 10 days, the director may then refuse to issue additional permits to such person until such work has fully complied with the rules and regulations of this code.~~

~~102 is amended by adding 102.9 to read as follows:~~

~~*102.9 License Required*~~

~~Before any person shall engage in the business of plumbing within the city, said person shall be qualified as set forth in this code and shall have a current master plumber's license obtained from the state board of plumbing examiners. The license shall be registered with the city by submitting the appropriate fee as set forth in the fee schedule adopted by the city of San Antonio. Where any plumbing work is being done, a master or journeyman plumber shall, at all times, be present on the job and in actual control and in charge of the work being done.~~

*Section 103.1.3 Licensing* of the Uniform Plumbing Code is amended to read as follows:

**103.1.3 License Required. Licensing.** Before any person shall engage in the business of plumbing within the city, said person shall be qualified as set forth in this code and shall have a current master plumber's license obtained from the state board of plumbing examiners. The license shall be registered with the city by submitting the appropriate fee as set forth in the fee schedule adopted by the city of San Antonio. Where any plumbing work is being done, a master or journeyman plumber



shall, at all times, be present on the job and in actual control and in charge of the work being done. Provision for licensing shall be determined by the Authority Having Jurisdiction.

*Section 103.1 Permits* of the Uniform Plumbing Code is amended by adding Sections 103.1.4, 103.1.4 .1, 103.1.4 .2, 103.1.4.3, 103.1.4.4, 103.1.4.5, 103.1.4.6, and 103.1.4.7 as follows:

**103.1.4 Who may obtain permits:**

**103.1.4.1** Any duly licensed master plumber. See Section 103.1.4.8 for bond and insurance requirements.

**103.1.4.2** Any homeowner performing plumbing work on a homestead wherein he/she resides. The installation is to be made by the homeowner without the assistance of any person or persons.

**103.1.4.3** Licensed irrigators for the installation of back flow devices for irrigation systems. Must have state irrigator's license.

**103.1.4.4** Water softener companies that hold a Class III Texas Commission of Environmental Quality (TCEQ) license for the installation or change out of water softeners and associated equipment.

**103.1.4.5** Licensed fire line contractors for back flow devices on fire lines.

**103.1.4.6** Plumbing work done by anyone who is regularly employed or acting as a maintenance man or maintenance engineer, incidental to and in connection with the business in which he is employed or engaged, and who does not engage in the occupation of a plumber for the general public. See state licensing law for definition of maintenance person or maintenance engineer.

**Exception 1:** Any person who is employed by the railroad for plumbing work done upon the premises or equipment of the railroad and who does not engage in the occupation of a plumber for the general public.

**Exception 2:** Any person engaged by any public service company for plumbing work in connection with laying, maintenance and operation of its service mains or lines and the installation, alteration, adjustment, repair, removal or renovation of all types of appurtenances, equipment and appliances directly related to public service companies, properties and/or jurisdiction.

**103.1.4.7** Gas work done by a certified LP gas installer Licensed under chapter 113, Natural Resources Code, as amended (limited to underground service piping from the tank to the building or pool heater).

~~103.1 is amended by adding 103.1.4 to read as follows:~~

~~103.1.4 Who may obtain permits:~~

~~103.1.4.1 Any duly licensed master plumber. See Section 103.1.4.8 for bond and insurance requirements.~~

~~103.1.4.2 Any homeowner performing plumbing work on a homestead wherein he/she resides. The installation is to be made by the homeowner without the assistance of any person or persons.~~

~~103.1.4.3 Licensed irrigators for the installation of back flow devices for irrigation systems. Must have state irrigator's license.~~

~~103.1.4.4 Water softener companies that hold a Class III Texas Commission of Environmental Quality (TCEQ) license for the installation or change out of water softeners and associated equipment.~~

~~103.1.4.5 Licensed fire line contractors for back flow devices on fire lines.~~

~~103.1.4.6 Plumbing work done by anyone who is regularly employed or acting as a maintenance man or maintenance engineer, incidental to and in connection with the business in which he is employed or engaged, and who does not engage in the occupation of a plumber for the general public. See state licensing law for definition of maintenance person or maintenance engineer.~~

~~EXCEPTION 1: — Any person who is employed by the railroad for plumbing work done upon the premises or equipment of the railroad and who does not engage in the occupation of a plumber for the general public.~~

~~EXCEPTION 2: — Any person engaged by any public service company for plumbing work in connection with laying, maintenance and operation of its service mains or lines and the installation, alteration, adjustment, repair, removal or renovation of all types of appurtenances, equipment and appliances directly related to public service companies, properties and/or jurisdiction.~~

~~103.1.4.7 Gas work done by a certified LP gas installer Licensed under chapter 113, Natural Resources Code, as amended. (limited to underground service piping from the tank to the building or pool heater)~~

*Section 103.1 Permits* of the Uniform Plumbing Code is amended by adding *Section 103.1.4.8* as follows:

**103.1.4.8 Insurance.** Before any person shall engage in the business of plumbing within the city, such person shall provide a certificate of insurance issued by an insurance company authorized and admitted to do business in the state of Texas for

commercial general liability insurance and products/ completed operations coverage for master plumber for claims for property damage or bodily injury, regardless of whether the claim arises from a negligence claim or on a contract claim, and shall be in a coverage amount of not less than \$300,000 for all claims arising in any one-year period. Further, any persons engaged in the business of plumbing shall indemnify and hold harmless the city from any and all damages, claims, liens or losses, including, but not limited to personal injury or death and property damage, arising from any acts or omission of any character whatsoever caused by such person, his agents or employees, engaged in the plumbing business.

*103.1.4 is amended by adding 103.1.4.8 to read as follows:*

*103.1.4.8 Bond and Insurance*

~~Before any person shall engage in the business of plumbing within the city, such person shall deposit with the city a certificate of insurance by an insurance company authorized and admitted to do business in the state of Texas, certifying that the applicant is insured to the limit of at least \$100,000 public liability per occurrence, \$100,000 property damage liability insurance per occurrence and product/completed operations coverage, to be approved by the director and present a good and sufficient bond in the sum of \$5000 conditioned that the person engaged in the plumbing business will faithfully observe all the laws pertaining to plumbing and main laying. Or shall provide a certificate of insurance issued by an insurance company authorized and admitted to do business in the state of Texas for commercial general liability insurance and products/ completed operations coverage for the master plumber for claims for property damage or bodily injury, regardless of whether the claim arises from a negligence claim or on a contract claim, and shall be in a coverage amount of not less than \$300,000 for all claims arising in any one year period. Further, any persons engaged in the business of plumbing shall indemnify and hold harmless the city from any and all damages, claims, liens or losses, including, but not limited to personal injury or death and property damage, arising from any acts or omission of any character whatsoever caused by such person, his agents or employees, engaged in the plumbing business.~~

*TABLE 1-1 Plumbing Permit Fees* of the Uniform Plumbing Code is deleted in its entirety.

*Section 103.4.1 Permit Fees* and *Section 103.4.2 Plan Review Fees* of the Uniform Plumbing Code are repealed and replaced with new *Sections 103.4.1* and *103.4.2* as follows:

**103.4.1 Permit Fees.** The fee for each permit shall be set forth in the fee schedule as adopted by the city of San Antonio.

**103.4.2 Plan Review Fees.** The fee for each permit shall be set forth in the fee schedule as adopted by the city of San Antonio.

~~103.4.1 is amended to read as follows:~~

~~The fee for each permit shall be set forth in the fee schedule as adopted by the city of San Antonio.~~

~~Table 1-1 is deleted and replaced by the fee schedule as adopted by the city of San Antonio.~~

~~103 is amended by adding 103.9, 103.10 and 103.11 to read as follows:~~

~~103.9 The latest edition of the Uniform Plumbing Code (UPC) as published by the International Association of Plumbing and Mechanical Officials (IAPMO) is the adopted code for the city of San Antonio and shall go into effect not less than 90 days or more than 180 days from the date of its publication and shall require a vote in the affirmative by the members of the Plumbing Appeals and Advisory Board. The Board may extend the 180 day time limit for just cause.~~

~~103.10 The local amendments shall remain in effect as applicable until amended by the Board to conform to any procedural changes in the UPC.~~

~~103.11 To better serve and protect the health and safety of the citizens of San Antonio, all plumbing and gas related sections of the International Residential Code (IRC) are hereby amended. The current adopted plumbing code for the city of San Antonio, being equal to or more restrictive than the IRC, shall govern the installation of plumbing and shall replace these amended sections.~~

*Section 311 Prohibited Fittings and Practices* of the Uniform Plumbing Code is amended by adding *Section 311.9* as follows:

311.9 No electric lines are to be installed in the same ditch with plumbing, gas, sewer or water piping unless a separation of 36" is maintained.

~~311 is amended by adding 311.9 to read as follows:~~

~~311.9 No electric lines are to be installed in the same ditch with plumbing, gas, sewer or water piping unless a separation of 36" is maintained.~~

*Sections 313.2 and 313.6 of the Uniform Plumbing Code* are amended to read as follows:

**313.2** All piping in connection with a plumbing system shall be so installed that piping or connections will not be subject to undue strains or stresses, and provisions shall be made for expansion, contraction, and structural settlement. Any plastic material used to protect copper piping from contact with other metallic material shall be a minimum of 6 mil. Tarpaper or Felt paper shall also be acceptable for this

~~purpose. No plumbing piping shall be directly embedded in concrete or masonry. No structural member shall be seriously weakened or impaired by cutting, notching, or otherwise, as defined in the Building Code.~~

~~313.2 is amended by deleting the second sentence starting with the words "No piping...and ending with the word...masonry", and adding the following:  
Any plastic material used to protect copper piping from contact with other metallic material shall be a minimum of 6 mil. Tarpaper or Felt paper shall also be acceptable for this purpose.~~

**313.6** No water, soil, or waste pipe shall be installed or permitted outside of a building or in an exterior wall unless, where necessary, adequate provision is made to protect such pipe from freezing. For the purpose of this section, a ventilated attic is considered subject to freezing. Piping under 4 inches nominal of insulation is considered protected from freezing.

~~313.6 is amended by adding the following:~~

~~For the purpose of this section, a ventilated attic is considered subject to freezing. Piping under 4 inches nominal of insulation is considered protected from freezing.~~

*Section 313 Protection of Piping, Materials, and Structures* of the Uniform Plumbing Code is amended by adding *Section 313.13* as follows:

**313.13** When accessible openings are required by this code, they shall be a minimum of 12" x 12" (305 mm x 305 mm) in dimension unless otherwise approved by the administrative authority.

~~313 is amended by adding 313.13 to read as follows:~~

~~313.13 When accessible openings are required by this code, they shall be a minimum of 12" x 12" in dimension unless otherwise approved by the administrative authority.~~

*Section 314.3* of the Uniform Plumbing Code is amended to read as follows:

**314.3** Piping in the ground shall be laid on a firm bed for its entire length; where other support is otherwise provided, it shall ~~be approved per Section 301.0 of this code.~~ comply with Table 3-2 and not exceed 24" above ground. (Two steel rods crisscrossed and tied to pipe with tie wire and spaced per Table 3-2 will be required on horizontal piping raised above ground.)

~~314.3 is amended to read as follows:~~

~~Piping in the ground shall be laid on a firm bed for its entire length. Where support is otherwise provided, it shall comply with Table 3-2 and not exceed 24" above ground~~

~~(Two steel rods crisscrossed and tied to pipe with tie wire and spaced per Table 3-2 will be required on horizontal piping raised above ground.)~~

*Section 316.1.6 Solvent Cement Plastic Pipe Joints* of the Uniform Plumbing Code is amended by deleting the exception.

~~316.1.6 is amended by deleting the exception.~~

*Section 402.0 Water Conservation* of the Uniform Plumbing Code is amended by adding *Section 402.7* as follows:

402.7 The maximum discharge flow rates for plumbing fixture fittings shall be in accordance with applicable standards referenced in Chapter 3 and listed in Table 14-1, but in no case shall they exceed the maximum requirements of the Texas Commission of Environmental Quality (TCEQ), Chapter 372, titled "Environmental Performance Standards for Plumbing Fixtures."

~~402.0 Water Conservation~~ is amended by adding 402.7 to read as follows:

~~402.7 The maximum discharge flow rates for plumbing fixture fittings shall be in accordance with applicable standards referenced in Chapter 3 and listed in Table 14-1, but in no case shall they exceed the maximum requirements of the Texas Commission of Environmental Quality (TCEQ), Chapter 372, titled "Environmental Performance Standards for Plumbing Fixtures."~~

*Section 412.2 Access to Fixtures* of the Uniform Plumbing Code is deleted.

~~412.2 is hereby deleted.~~

*Table 4-1 Minimum Plumbing Facilities* of the Uniform Plumbing Code is amended by adding *note 19* to *Table 4-1* to read as follows:

19 Minimum bathtub and/or shower requirements for Nursing Homes shall be as required by the standards set forth by the State of Texas.

*Table 4-1 Minimum Plumbing Facilities* of the Uniform Plumbing Code is amended by adding *Tables 4-1A, 4-1B and 4-1C* to read as follows:

## MINIMUM PLUMBING FACILITIES

**Table 4-1A**  
**Restaurants (No Alcohol)**

<u>Water Closets</u>		<u>Urinals</u>	<u>Lavatories</u>	
<u>Male</u>	<u>Female</u>	<u>Male</u>	<u>Male</u>	<u>Female</u>
<u>1 : 6-25</u>	<u>1 : 6-25</u>	<u>-- 0 --</u>	<u>-- 1 --</u>	<u>1</u>

1 : 26-50	2 : 26-50	-- 1 --	-- 1 --	<u>1</u>
For occupancy load over 100, refer to current U.P.C. Chapter four Table 4-1				

Note: Occupancy load factor is to be used to calculate minimum plumbing fixtures only.

**Table 4-1B**  
**Game Rooms and Similar Occupancies**

<b>1. Must have men's and women's restrooms</b>				
<b>2. No alcohol or concession stand</b>				
Water Closets		Urinals	Lavatories	
Males	Females		Males	Females
1 : 1--50	1 : 1--50	0	1	1
1 : 51--100	2 : 51--100	1	1	1
1 : 101-150	3 : 101-150	2	1	1

**Table 4-1C**  
**Gymnastic Centers and Dance Studios**  
**Occupant load based on 100 sq. ft. per person at total building sq. ft.**  
**Dance studios shall be based on a 95/5 split for Female/Male**

Water Closets		Urinals	Lavatories
Male	Female	Male	Male & Female
1: 1-50	2: 1-50	1: 1-100	1 each
2: 51-100	3: 51-100		
2: 101-150	4: 101-150	2: 101-150	2 each

Table 4-1 is amended by adding the following tables found at the end of these amendments; 4-1A, 4-1B, 4-1C, 4-1D and 4-1E.

### MINIMUM PLUMBING FACILITIES

**Table 4-1A**  
**Retail/ Wholesale**

	WATER CLOSETS		URINALS	LAVATORIES	
	Males	Females	Males	Males	Females
2000 Sq. Ft. Or Less	1-W.C.		0	1-LAV.	
2001 Sq. Ft. And Over	1 : 1-43	1 : 1-43		1 : 1-200	
	1 : 1-100	2 : 44-100	1 : 44-100	2 : 201-400	

<b>EXAMPLES:</b> Shoe Stores Hardware Clothes Stores Auto Parts Art Galleries Grocery Stores Drug Stores Sports Hair Salons Furniture Stores	For occupant loads over 200 refer to the current U.P.C. Table 4-1 (Office and Public Buildings)
	To figure occupant load 115 sq. ft. per person is the multiplier.

**Table 4-1B**  
**Restaurants (No Alcohol)**

Water Closets		Urinals	Lavatories	
Male	Female	Male	Male	Female
1: 6-25	1: 6-25	—0—	—1—	1
1: 26-50	2: 26-50	—1—	—1—	1
For occupancy load over 100, refer to current U.P.C. Chapter four Table 4-1				

**Table 4-1C**  
**Game Rooms and Similar Occupancies**

<b>1. Must have mens and womens restrooms</b>				
<b>2. No alcohol or concession stand</b>				
Water Closets		Urinals	Lavatories	
Males	Females		Males	Females
1: 1-50	1: 1-50	0	1	1
1: 51-100	2: 51-100	1	1	1
1: 101-150	3: 101-150	2	1	1

**Table 4-1D**  
**Gymnastic Centers**

Occupant load based on 100 sq. ft. per person at total building sq. ft.

Water Closets		Urinals	Lavatories
Male	Female	Male	Male & Female
1: 1-50	2: 1-50	1: 1-100	1 each
2: 51-100	3: 51-100		
2: 101-150	4: 101-150	2: 101-150	2 each



**Table 4-1E**  
**Dance Studios**

**Occupant load based on 100 sq. ft. per person at total building sq. ft. with a 95/5 split.**

Water Closets		Lavatories
Male	Female	Male & Female
1: 1-50	2: 1-50	1 each
	3: 51-100	
	4: 101-150	

*Section 505.1 Location* of the Uniform Plumbing Code is amended by adding item (3) as follows:

**(3) Electric water heaters shall be approved in both of these locations.**

*505.1* is amended to read as follows:

~~Gas-fired water heater installations in bedrooms and bathrooms shall be of the direct vent type.~~

~~Electric water heaters shall be approved in both of these locations.~~

*505.1* is amended by adding 505.1.1 to read as follows:

~~505.1.1 Only electric water heaters may be installed under a stairway or landing.~~

*Section 506.4.2* of the Uniform Plumbing Code is amended to read as follows:

**506.4.2** Indirect-fired water heater that incorporate a single-wall heat exchanger shall be limited to non potable applications only and meet all of the following requirements:

- (1) Connected to a low-pressure hot water boiler limited to a maximum of 30 psig by an approved safety or relief valve.
- (2) Heater transfer medium is either potable water or contains fluids having a toxicity rating or Class of 1.
- (3) Bear a label with the word "Caution," followed by the following statements:
  - (a) The heat-transfer medium must be water or other nontoxic fluid having a toxicity rating or Class of 1 as listed in Clinical Toxicology of Commercial Products, 5<sup>th</sup> edition.

(b) The pressure of the heat-transfer medium must be limited to a maximum of 30 psig by an approved safety or relief valve.

Note: The word "Caution" and the statements in letters having a minimum uppercase height of 0.120 inch (3.05 mm). The minimum vertical spacing between lines of type shall be 0.046 inch (1.17 mm). Lowercase letters shall be compatible with the uppercase letter size specification.

*Section 508.27 Protection of Outdoor Equipment* of the Uniform Plumbing Code is amended to read as follows:

**508.27 Protection of Outdoor Equipment.** Gas utilization equipment not listed for outdoor installation but installed outdoors shall be provided with protection to the degree that the environment requires. Equipment listed for outdoor installation shall be permitted to be installed without protection in accordance with the provisions of its listing. (See 9.2.1) [NFPA 54:9.1.23] Water heaters installed in exterior locations that are not designed for exterior locations shall be protected by a full enclosure and shall be installed in accordance with Section 505, 507 and 510.

*(The following references were extracted from NFPA 54.)*

*9.2 Accessibility and Clearance.*

*9.2.1 Accessibility for service. All gas utilization equipment shall be located with respect to building construction and other equipment so as to permit access to the gas utilization equipment. Sufficient clearance shall be maintained to permit cleaning of heating surfaces; the replacement of filters, blowers, motors, burners, controls, and vent connections; the lubrication of moving parts where necessary; the adjustment and cleaning of burners and pilots; and the proper functioning of explosion vents, if provided. For attic installation, the passageway and servicing area adjacent to the equipment shall be floored.*

~~508.27 is amended by adding the following:~~

~~Water heaters installed in exterior locations that are not designed for exterior locations shall be protected by an enclosure and shall be installed in accordance with Section 505, 507 and 510.~~

*Section 509.4 Appliances in Attics* of the Uniform Plumbing Code is amended by adding *Section 509.4.6* as follows:

**509.4.6** Storage type water heaters shall not be installed in an attic unless accessible from a door opening from the house on the same floor level and if in accordance with Sections 509.4.2 thru 509.4.5.

~~510.6.2.1 is amended by adding 510.6.2.1.1 to read as follows:~~

~~510.6.2.1.1 Vent Termination.~~

~~No vent system shall terminate less than four (4) feet below or Four (4) feet horizontally from, nor less than one (1) foot above any door, openable window, or gravity air inlet into any building.~~

*513.0 Access and Working Space*

~~Every water heater installation shall be accessible for inspection, repair, or replacement. The appliance space shall be provided with an opening or doorway of sufficient size to remove the water heater. In no case shall such opening or doorway be less than twenty four (24) inches (610 mm) in width. Such access shall be continuous and shall be one or any combination of the following means:~~

~~513.1 By an opening or door, and passageway not less than two (2) feet (610 mm) in width and large enough to permit removal of the water heater, but not less than thirty (30) inches (762 mm) in height. Stairways and ramps leading to or part of such passageways shall comply with the Building Code.~~

~~513.2 Every attic, roof, mezzanine, or platform more than (8) feet (2438 mm) above the ground or floor level shall be made accessible by a stairway or ladder permanently fastened to the building. Such a ladder or stairway shall not be more than eighteen (18) feet (5486 mm) in length between landings and not less than fourteen (14) inches (355 mm) in width. Such a ladder shall have rungs spaced not more than (14) inches (355 mm) center to center and not less than six (6) inches (152.4 mm) from the face of the wall. Each stile is to extend thirty (30) inches (762 mm) above the surface to be reached, or as high as possible, if height is limited. Permanent ladders for water heater access need not be provided at parapets or walls less than thirty (30) inches (762 mm) in height.~~

~~Exception: A portable ladder may be used for access for water heaters in attics on the single-story portion of a Group U, Division 1 or R Occupancy.~~

~~513.2 is amended by adding an exception to read as follows:~~

~~EXCEPTION: Water heaters of 12 gallons or less installed above suspended ceiling 9 feet in height or less do not require a permanent ladder.~~

~~513.3 By a trap door or opening and passageway not less than thirty (30) inches (762 mm) by thirty (30) inches (762 mm), but in no case smaller than the water heater. The passageway shall be continuous from the trap door or opening to the water heater. The trap door or opening shall be located not more than twenty (20) feet (508 mm) from the water heater.~~

~~513.4 Every passageway to an attic water heater shall have an unobstructed solid continuous flooring not less than twenty four (24) inches (610 mm) wide from the trap door or opening to the water heater. If the trap door or opening is more than eight (8) feet (2438 mm) above the floor, a stairway or ladder permanently fastened~~

~~to the building shall be provided. Such stairway or ladder shall lead directly to the edge of the trap door or opening and shall comply with the provisions of this section.~~

~~EXCEPTION: A portable ladder may be used for access for water heaters in attics on the single-story portion of a Group U, Division 1 or R Occupancy.~~

~~513.5 By an unobstructed catwalk not less than twenty four (24) inches (610 mm) wide. Access to the catwalk shall be by ladder or stairs complying with the provisions of this section.~~

~~Attic and underfloor water heater locations shall be provided with an electric outlet and lighting fixture at or near the water heater. The lighting fixture shall be controlled by a switch located adjacent to the opening or trap door.~~

~~An unobstructed solidly floored working space not less than thirty (30) inches (762 mm) in depth and width shall be provided immediately in front of the firebox access opening. A door opening into such space shall not be considered as an obstruction.~~

*Section 601.2 Identification of a Potable and Nonpotable Water Supply* of the Uniform Plumbing Code is amended to read as follows:

**601.2 Identification of a Potable and Nonpotable Water System.** In all buildings and on all properties where potable water and nonpotable water systems are installed, each system shall be clearly identified. Each system shall be color coded as follows:

*601.2* is amended to read as follows:

In all buildings and on all properties,.....the rest to read as written.

*Section 603.3.4* of the Uniform Plumbing Code is amended to read as follows:

Access and clearance shall be provided for the required testing, maintenance, and repair. Access and clearance shall require a minimum of one (1) foot (305 mm) between the lowest portion of the assembly and grade, floor, or platform. Installations elevated more than five (5) feet (1524 mm) above the floor or grade shall be provided with a permanent platform capable of supporting a tester or maintenance person. All backflow assemblies and devices shall be installed in accordance with the installation standards provided by the Authority Having Jurisdiction.

*603.3.4* is amended by adding the following:

~~All backflow assemblies and devices shall be installed in accordance with the installation standards provided by the Authority Having Jurisdiction.~~

*Section 603.4.6.1* of the Uniform Plumbing Code is amended by adding a fifth type of protection device as follows:

**(5) Double check valve assembly.**

~~603.4.6.1 is amended by adding another type to read as follows:~~

~~4. Double check valve assembly.~~

*Section 603.4.12* of the Uniform Plumbing Code is repealed in its entirety and replaced with language as follows:

**603.4.12 Water supply to carbonators shall be protected by either a double check valve assembly or an RP device.**

~~603.4.13 is deleted and is amended to read as follows:~~

~~Water supply to carbonators shall be protected by either a double check valve assembly or an rp device.~~

*Section 603.4.16.1* of the Uniform Plumbing Code is amended to read as follows:

**603.4.16.1** Except as provided under Sections 603.4.18.2 and 603.4.18.3, potable water supplies to fire protection systems that are normally under pressure, including but not limited to standpipes and automatic sprinkler systems, ~~except in one or two family residential sprinkler systems, piped materials approved for potable water distribution systems~~ shall be protected from back-pressure and back-siphonage by one of the following testable devices:

- i. Double check valve assembly
- ii. Double check detector assembly
- iii. Reduced pressure backflow preventer
- iv. Reduced pressure detector assembly

Potable water supplies to fire protection systems that are not normally under pressure shall be protected from backflow and shall meet the requirements of the appropriate standards referenced in Table 14-1.

~~603.4.18.1 is amended to read as follows:~~

~~Except as provided under sections 603.4.18.2 and 603.4.18.3, potable water supplies to fire protection systems that are normally under pressure, including but not limited to standpipes and automatic sprinkler systems shall be protected from back pressure and back siphonage by one of the following testable devices:~~

~~1. Double check valve assembly~~

- ~~2. Double check detector assembly~~
- ~~3. Reduced pressure backflow prevented~~
- ~~4. Reduced pressure detector assembly~~

*Section 604.1* of the Uniform Plumbing Code is amended to read as follows:

**604.1** All pipe, tube, and fittings carrying water used in potable water systems intended to supply drinking water shall meet the requirements of NSF 61 as found in Table 14-1. All materials used in the water supply system, except valves and similar devices, shall be of a like material, except where otherwise approved by the Authority Having Jurisdiction.

Materials for building water piping and building supply piping shall be in accordance with Table 6-4 and the standards in Table 14-1. Asbestos cement piping is prohibited for use on potable water lines. The use of CPVC below slab on fill shall be free of any joints.

~~604.1 is amended by adding the following:~~

~~Asbestos cement piping is prohibited for use on potable water lines. The use of CPVC below slab on fill, shall be free of any joints.~~

*Section 604.2* of the Uniform Plumbing Code is amended by deleting the exception to read as follows:

**604.2** Copper tube for water piping shall have weight of not less than Type L.  
~~**Exception:** Type M copper tubing may be used for water piping when piping is aboveground in, or on, a building or underground outside of structures.~~

~~604.2 is amended by deleting the exception~~

*Section 605.5* of the Uniform Plumbing Code is amended to read as follows:

**605.5** A control valve shall be installed immediately ahead of each water-supplied appliance and immediately ahead of each slip joint or appliance supply.

Parallel water distribution systems shall provide a control valve either immediately ahead of each fixture being supplied or installed at the manifold and shall be identified with the fixture being supplied. All water closets and icemakers shall have a shutoff or control valve at the fixture.

~~605.5 is amended by adding the following:~~

~~All water closets and icemakers shall have a shutoff or control valve at the fixture.~~

*Section 608.2 Excessive Water Pressure* of the Uniform Plumbing Code is amended to read as follows:

**608.2 Excessive Water Pressure.** Where static water pressure in the water supply piping is in excess of eighty (80) pounds per square inch (552 kPa), an approved-type pressure regulator preceded by an adequate strainer shall be installed and the static pressure reduced to eighty (80) pounds per square inch (552 kPa) or less. Such regulator(s) shall control the pressure to all water outlets in the building unless otherwise approved by the Authority Having Jurisdiction. Each such regulator and strainer shall be accessibly located aboveground or in a vault ~~equipped with a properly sized and sloped bore sighted drain to daylight~~, shall be protected from freezing, and shall have the strainer readily accessible for cleaning without removing the regulator or strainer body or disconnecting the supply piping. All pipe size determinations shall be based on eighty (80) percent of the reduced pressure when using Table 6-6. In addition to the required pressure reducing valve, a thermal expansion tank shall also be required on all water heaters whenever the purveyor's water pressure to the property exceeds 80 pounds per square inch (552 kPa).

*Section 608.3* of the Uniform Plumbing Code is amended to read as follows:

**608.3** Any water system provided with a check valve, backflow preventer, or any other normally closed device that prevents dissipation of building pressure back into the water main shall be provided with an approved, listed, and adequately sized expansion tank or other approved device having a similar function to control thermal expansion. Such expansion tank or other approved device shall be installed on the building side of the check valve, backflow preventer, or other device and shall be sized and installed in accordance with the manufacturer's recommendation. Thermal expansion control is limited to the use of expansion tanks (per water conservation requirements of 1998).

Any water system containing storage water heating equipment shall be provided with an approved, listed, adequately sized combination pressure and temperature relief valve, except for listed nonstorage instantaneous heaters having an inside diameter of not more than three (3) inches (80 mm). Each such approved combination temperature and pressure relief valve shall be installed on the water-heater device in an approved location based on its listing requirements and the manufacturer's instructions. Each such combination temperature and pressure relief valve shall be provided with a drain as required in Section 608.5.

*Section 609.10 Water Hammer* of the Uniform Plumbing Code is amended to read as follows:

**609.10 Water Hammer** All building water supply systems in which quick-acting valves are installed shall be provided with devices to absorb the hammer caused by high pressures resulting from the quickclosing of these valves. Water Hammer Arrestors shall be installed to protect all washing machines, kitchen sinks,

dishwashers, tubs and shower locations from water hammer. A separate tub and shower set back to back may be served by a single set of water hammer arrestors, provided that the continuation of the water line from one fixture (where the arrestors are located) to the other fixture does not exceed 8 linear feet as measured along the pipe. These pressure-absorbing devices shall be approved mechanical devices. Water pressure-absorbing devices shall be installed as close as possible to quick-acting valves.

*Section 610.13 Exceptions*, exception (7) of the Uniform Plumbing Code is amended to read as follows:

**610.13 Exceptions** (7) The size and material of irrigation water piping installed outside of any building or structure and separated from the potable water supply by means of an approved airgap or backflow prevention device is not regulated by this code. The potable water piping system supplying each such irrigation system shall be adequately sized as required elsewhere in this chapter to deliver the full connected demand of both the domestic use and the irrigation systems. The irrigation system shall be designed and installed as per city ordinance # 97250.

*Section 701.1.3* of the Uniform Plumbing Code is amended to read as follows:

**701.1.3** No vitrified clay pipe or fittings shall be used aboveground, under slab or buildings, or where pressurized by a pump or ejector. They shall be kept at least twelve (12) inches (305 mm) belowground.

~~701.1.3 is amended to read as follows:~~

~~No vitrified clay pipe or fittings shall be used above ground, under slab or buildings, or where pressurized by a pump or ejector. They shall be kept at least 12" below ground.~~

*Section 701.2* of the Uniform Plumbing Code is amended by adding *Section 701.2.4* as follows:

**701.2.4** Any hubless-type pipe joint made underground or under a slab shall be made with a wide-bodied shielded coupling.

~~701.2 is amended by adding 701.2.4 to read as follows:~~

~~701.2.4 Any hubless-type pipe joint made underground or under a slab shall be made with a wide-bodied shielded coupling.~~

*Section 707.0 Cleanouts* of the Uniform Plumbing Code is amended by changing *Section 707.4, Exception 1* to read as follows:



**Exception 1:** Cleanouts may be omitted on a horizontal drain lines less than five (5) feet (1524 mm) in length unless the line is serving washing machines, kitchen sinks or urinals.

~~707.4 is amended by changing Exception 1 to read as follows:~~

~~EXCEPTION 1: Cleanouts may be omitted on a horizontal drain lines less than 5 feet in length unless the line is serving washing machines, kitchen sinks or urinals.~~

*Section 707.0 Cleanouts* of the Uniform Plumbing Code is amended by adding *Section 707.15* as follows:

**707.15 All washing machines and kitchen sinks shall have an accessible cleanout.**

~~707 is amended by adding 707.15 to read as follows:~~

~~707.15 All washing machines and kitchen sinks shall have an accessible cleanout.~~

*Section 712.2 Water Test* of the Uniform Plumbing Code is amended to read as follows:

**712.2 Water Test** The water test shall be applied to the drainage and vent systems either in its entirety or in sections. If the test is applied to the entire system, all openings in the piping shall be tightly closed, except the highest opening, and the system filled with water to point of overflow. If the system is tested in sections, each opening shall be tightly plugged, except the highest opening of the section under test, and each section shall be filled with water, but no section shall be tested with less than a forty-two (42) inch (1067 mm) ~~ten (10) feet (3048 mm)~~ head of water. In testing successive sections, at least the upper ten (10) feet (3048 mm) of the next preceding section shall be tested, so that no joint or pipe in the building (except the uppermost ten (10) feet (3048 mm) of the system) shall have been submitted to a test of less than a forty-two (42) inch (1067 mm) ~~ten (10) feet (3048 mm)~~ head of water. The water shall be kept in the system, or in the portion under test, for at least fifteen (15) minutes before inspection starts. The system shall then be tight at all points.

~~712 is amended to read as follows:~~

~~'42 inches head of water' instead of '10 feet head of water'~~

*Section 712.2 Water Test* of the Uniform Plumbing Code is amended by adding 712.2.1 as follows:

**712.2.1** The first floor DWV system shall be retested and inspected prior to the slab being poured to assure there are no broken drain pipes below slab resulting from the backfill and steel placement. The water lines and trap primers, if any, will also be checked at this time.

~~712 is amended by adding 712.2.1 to read as follows:~~

~~712.2.1 The first floor DWV system shall be retested at the top out stage to assure there are no broken drain pipes below slab. The system shall be tested to the overflow level of the tub when installed, or the next reasonable point on the system as predetermined by the Plumbing Inspector.~~

*Section 715.1* of the Uniform Plumbing Code is amended to read as follows:

**715.1** The building sewer, beginning two (2) feet (610 mm) from any building or structure, shall be a minimum of SCH 40 PVC for four (4) inch (102 mm) and smaller and SDR 35 PVC for six (6) inch (153 mm) and larger of such materials as prescribed in this code.

~~715.1 is amended to read as follows:~~

~~The building sewer, beginning two feet from any building or structure shall be a minimum of SCH 40 PVC for 4 inch and smaller and SDR 35 PVC for 6 inch and larger.~~

*Section 717.0 Size of Building Sewers* of the Uniform Plumbing Code is amended to read as follows:

**717.0 Size of Building Sewers** The minimum size of any building sewer shall be determined on the basis of the total number of fixture units drained by such sewer, in accordance with Table 7-8. No building sewer within private property shall be smaller than the building drain, but in no case smaller than three (3) inches (76 mm).

~~717 is amended by changing the last sentence to read as follows:~~

~~No building sewer within private property shall be smaller than 3 inch.~~

*Section 718.0 Grade, Support, and Protection of Building Sewers* of the Uniform Plumbing Code is amended by adding *Section 718.4* as follows:

**718.4** Sewers over Edwards Recharge Zone shall be installed in accordance with any applicable TCEQ requirements and in accordance with the requirements as provided in the SAWS Utility Service Regulations.

~~718 is amended by adding the 718.4 to read as follows:~~

~~718.4 Sewers over Edwards Recharge Zone shall be installed in accordance with any applicable TCEQ requirements and in accordance with the requirements as provided in the SAWS Utility Service Regulations.~~

*Section 719.0 Cleanouts* of the Uniform Plumbing Code is amended by adding *Section 719.7* as follows:

**719.7** Cleanouts located in traffic-bearing areas shall be installed with a vehicle traffic-bearing box. The box shall be set in concrete slab, extending at least 12 inches from the perimeter of the cleanout. The slab shall be no less than 6 inches thick. The concrete shall be no less than 2,500 psi.

~~719 is amended by adding & 719.7 to read as follows:~~

~~719.7 Cleanouts located in traffic bearing areas shall be installed with a vehicle traffic bearing box. The box shall be set in concrete slab, extending at least 12 inches from the perimeter of the cleanout. The slab shall be no less than 6 inches thick. The concrete shall be no less than 2,500 psi.~~

*Section 723.0 Building Sewer Test* of the Uniform Plumbing Code is deleted in its entirety.

~~723 is hereby deleted~~

*Section 807.4* of the Uniform Plumbing Code is amended by adding *Section 807.4.1* as follows:

**807.4.1** In lieu of the air gap fitting, a dishwasher loop may be used. It must be securely fastened as high as possible under the counter top.

~~807.4 is amended by adding 807.4.1~~

~~In lieu of the air gap fitting, a dishwasher loop may be used. It must be securely fastened as high as possible under the counter top.~~

*Section 905.3* of the Uniform Plumbing Code is amended to read as follows:

**905.3** Unless prohibited by structural conditions, each vent shall rise vertically to a point not less than six (6) inches (152 mm) above the flood-level rim of the fixture served before offsetting horizontally, and whenever two or more vent pipes converge, each such vent pipe shall rise to a point at least six (6) inches (152 mm) in height above the flood-level rim of the plumbing fixture it serves before being connected to any other vent. Vents less than six (6) inches (152 mm) above the flood-level rim of the fixture shall be installed with approved drainage fittings, material, and grade to the drain. When, due to structural condition, horizontal vents are installed below the flood level rim of the fixture they serve, they shall have a cleanout installed on the riser in an accessible location.

**Exception:** A vent that continues, uninterrupted through the roof and is accessible from the roof to rod out, would be acceptable.

~~905.3~~ is amended by adding this last sentence to read as follows:

~~All horizontal vents installed below the flood level rim of the fixture they serve shall have a cleanout installed on the riser in an accessible location.~~

~~EXCEPTION: A vent that continues, uninterrupted through the roof and is accessible from the roof to rod out, would be acceptable.~~

*Section 910.1* of the Uniform Plumbing Code is amended to read as follows:

Combination waste and vent systems shall be permitted for floor drains, floor sinks, hub drains and other similar clear water waste fixtures. only where structural conditions preclude the installation of conventional systems as otherwise prescribed by this code. There shall be a minimum of two vents on the system. One shall be at the beginning of the system and one shall be immediately before the uppermost fixture on the system.

~~910.1~~ is amended to read as follows:

~~Combination waste & vent systems shall be permitted for floor drains, floor sinks, hub drains and other similar clear water waste fixtures. There shall be a minimum of two vents on the system. One shall be at the beginning of the system and one shall be immediately before the uppermost fixture on the system.~~

~~1007~~ is amended by adding the following exception:

~~Exception. A trap seal protector equivalent to a "TRAP GUARD" in conjunction with a deep seal trap, shall be considered as meeting the trap seal protection requirement.~~

~~1009~~ is amended by adding 1009.3.1 and 1009.3.2 to read as follows:

~~1009.3.1 All interceptors (clarifiers) shall be equipped with a 90 degree inverted elbow or equivalent, used inside the interceptor on the effluent side of the interceptor (clarified). Relief vents for interceptors shall terminate to the atmosphere independent from any other vent.~~

~~1009.3.2 The above are minimum specifications for interceptors and separators. An engineer may be retained to design an interceptor or separator. The design and structural integrity shall conform or exceed the standards outlined above. A professional engineer may design for specific operational requirements, however, the plans must be submitted with a professional engineer's seal for approval.~~

*Section 1011.0 Minimum Requirements for Auto Wash Racks* of the Uniform Plumbing Code is amended by adding *Section 1011.1* as follows:

1011.1 Automatic car washes (w/high pressure sprays and/or brushes) shall install a 50 GPM interceptor, minimum, for a 4-bay vehicle wash. The size of the interceptor shall increase 10 GPM for each additional wash bay over 4. Single bay or portable washer type vehicle washes shall install a 20 GPM interceptor, minimum. The sizing criteria for automatic car washes shall be based on the above mentioned GPM x 12-minute retention time.

~~1011.0 is amended by adding 1011.2 to read as follows:~~

~~1011.2 Automatic car washes (w/high pressure sprays and/or brushes) shall install a 50 GPM interceptor, minimum, for a 4-bay vehicle wash. The size of the interceptor shall increase 10 GPM for each additional wash bay over 4. Single bay or portable washer type vehicle washes shall install a 20 GPM interceptor, minimum. The sizing criteria for automatic car washes shall be based on the above mentioned GPM x 12-minute retention time.~~

*Section 1012.0 Commercial and Industrial Laundries of the Uniform Plumbing Code is amended by adding Sections 1012.1, 1012.2 and 1012.3 as follows:*

**1012.0 Commercial and Industrial Laundries.**

1012.1 Laundry equipment in commercial and industrial buildings that does not have integral strainers shall discharge into an interceptor having a wire basket or similar device that is removable for cleaning and that will prevent passage into the drainage system of solids one-half (1/2) inch (12.7 mm) or larger in maximum dimension, such as string, rags, buttons, or other solid materials detrimental to the public sewerage system.

1012.2 Public and private washaterias and commercial laundries shall install a lint trap equipped with a conveniently located and easily removable wire basket, or other similar device, that will prevent strings, rags, buttons, or other prohibited material from entering the sanitary sewer system. The basket or other similar device shall prevent passage to the sanitary sewer system of solids greater than 1/2 inch in diameter. The lint trap size shall be based on the total GPM of all fixtures, appliances and appurtenances draining to it.

1012.3 In lieu of a lint trap, a lint interceptor may be installed. A professional engineer may design for specific operational requirements; however, the plans must be submitted with a professional engineer's seal for approval. The design shall be based on a 12 minute retention time.

~~1012 is amended by adding 1012.2 and 1012.3 to read as follows:~~

~~1012.2 Public and private washaterias and commercial laundries shall install a lint trap equipped with a conveniently located and easily removable wire basket, or other similar device, that will prevent strings, rags, buttons, or other prohibited material~~

~~from entering the sanitary sewer system. The basket or other similar device shall prevent passage to the sanitary sewer system of solids greater than 1/2 inch in diameter. The lint trap size shall be based on the total GPM of all fixtures, appliances and appurtenances draining to it.~~

~~1012.3 In lieu of a lint trap, a lint interceptor may be installed. A professional engineer may design for specific operational requirements, however, the plans must be submitted with a professional engineer's seal for approval. The design shall be based on a 12 minute retention time.~~

*Section 1014.1.3 Food Waste Disposal Units and Dishwashers* of the Uniform Plumbing Code is amended by adding *Sections 1014.1.3.1 and 1014.1.3.2* as follows:

1014.1.3.1 All commercial food waste disposal units shall be connected to and discharge directly into a gravity grease interceptor.

1014.1.3.2 All dishwashers shall discharge into a gravity grease interceptor or meet the requirements of section 1014.2.4.

*Section 1014.2 Hydromechanical Grease Interceptors* of the Uniform Plumbing Code is amended by adding *Section 1014.2.4* as follows:

1014.2.4 Waste in excess of one hundred and forty (140) degrees Fahrenheit shall not discharge into grease traps and grease interceptors 100 GPM or smaller. A larger grease trap or interceptor shall be required.

*Section 1014.3.5 Construction Requirements* of the Uniform Plumbing Code is amended by adding *Section 1014.3.5.2* as follows:

1014.3.5.2 An effluent sampling well on all interceptors shall be required. The sample well shall have a riser a minimum of six (6) inches (153 mm) in diameter and shall be installed after the confluence of all waste streams from the facility and prior to discharging into the sanitary sewer collection system. The well shall be perpendicular to the effluent lateral to allow observation of the flow stream and provide for sampling of wastewater.

~~1014 is amended by adding 1014.9 to read as follows:~~

~~1014.9 Waste in excess of one hundred and forty (140) degrees Fahrenheit shall not discharge into a grease trap.~~

~~1015 is amended by adding 1015.2 to read as follows:~~

~~1015.2 All commercial food waste disposal units and dishwashers shall be connected to and discharge directly into grease interceptors.~~

*1016.0 Sand Interceptors* of the Uniform Plumbing Code is amended by adding *Section 1016.1.2.1* as follows:

**1016.1.2.1** Sand interceptors shall be installed in the drainage systems of the following establishments: garages, car washes, service stations, or any place of business where heavy solids or solids greater than ½ inch may be introduced into the sanitary sewer system. The sizing criteria for a sand interceptor shall be based on the required GPM x 12-minute retention times to obtain the tank size in gallon capacity.

~~1016~~ is amended by adding 1016.4 to read as follows:

~~1016.1.2.1~~ Sand interceptors shall be installed in the drainage systems of the following establishments: garages, car washes, service stations, or any place of business where heavy solids or solids greater than ½ inch may be introduced into the sanitary sewer system. The sizing criteria for a sand interceptor shall be based on the required GPM x 12-minute retention times to obtain the tank size in gallon capacity.

*Chapter 10 Traps and Interceptors* of the Uniform Plumbing Code is amended by adding *Sections 1018.0, 1019.0 and 1020.0* as follows:

**1018.0 Silver Recovery Units.** These units shall be installed in waste line(s) leading from x-ray processing, photographic processing, and/or any procedures in establishments such as medical labs, photo finishers, printers, graphic arts production facilities, hospital, veterinary hospitals, or other establishments where silver may be introduced into the sanitary sewer system.

**1019.0 Neutralizing Devices.** In no case shall corrosive liquids, spent acids, or other harmful chemicals which might destroy or injure a drain, sewer, soil or waste pipe, or which might create noxious fumes, discharge into the sanitary sewer system without being thoroughly neutralized by passing through a properly constructed and acceptable neutralizing medium, consisting of limestone or marble chips, so as to make its contents non-injurious before being discharged into the sanitary sewer system.

**1020.0 Solid Interceptors.** These shall be installed when pretreatment of waste streams is necessary to prevent solids greater than one-half (½) inch in diameter, which may cause line stoppage from entering the sanitary sewer system.

~~Chapter 10 of the Uniform Plumbing Code~~ is amended by adding 1018 to read as follows:

~~1018~~ Silver recovery units shall be installed in waste line(s) leading from x-ray processing, photographic processing, and/or any procedures in establishments such as medical labs, photo finishers, printers, graphic arts production facilities, hospital,

~~veterinary hospitals, or other establishments where silver may be introduced into the sanitary sewer system.~~

*Section 1204.3.1 Rough Piping Inspection* of the Uniform Plumbing Code is amended by adding a sentence to the end of that section to read as follows:

**1204.3.1 Rough Piping Inspection** This inspection shall be made after all gas piping authorized by the permit has been installed and before any such piping has been covered or concealed or any fixture or appliance has been attached thereto. This inspection shall include a determination that the gas-piping size, material, and installation meet the requirements of this code. The piping shall be tested by closing all openings and subjecting the pipes to an air pressure that will support a column of mercury fifteen (15) inches (381 mm) in height for at least 15 minutes, or a 10 psi air test using a dial gauge as described in Section 319 with a Grade A1 or better quality. For gas systems with pressures in excess of 14 inches of water column, the test pressure shall not be less than 1 ½ times the operating pressure for the system and shall hold this pressure for a minimum of 25 minutes.

~~1204.3.1 is amended by adding the following sentence:~~

The piping shall be tested by closing all openings and subjecting the pipes to an air pressure that will support a column of mercury 15" in height for at least 15 minutes, or a 10 psi air test using a dial gauge as described in Section 319 with a Grade A1 or better quality.

*Section 1204.3.2 Final Piping Inspection* of the Uniform Plumbing Code is amended to read as follows:

**1204.3.2 Final Piping Inspection.**

The inspection shall be made after all piping authorized by the permit has been installed and after all portions thereof that are to be covered or concealed are so concealed and before any after all fixtures, appliances and shut-off valves have been attached thereto. This inspection shall include a column of mercury six (6) inches (152 mm) in height for at least 15 minutes, or of a 5 psi air test using a dial gauge as described in Section 319 with a Grade A1 or better quality ~~be in accordance with Section 1214.1. Test gauges used in conducting tests shall comply with Section 319.0, Test Gauges.~~ For gas systems with pressures in excess of 14 inches of water column, the test pressure shall not be less than 1 ½ times the operating pressure for the system and shall hold this pressure for a minimum of 25 minutes.

~~1204.3.2 is deleted and is amended to read as follows:~~

~~Final piping inspection shall be made after all piping authorized by the permit has been installed and after all portions thereof which are to be covered or concealed are so concealed and after all fixtures, appliances and shut-off valves have been attached~~



~~thereto. This inspection shall include a column of mercury 6" in height for at least 15 minutes, or of a 5 psi air test using a dial gauge as described in section 319 with a Grade A1 or better quality.~~

*Section 1209.5 Acceptable Piping Materials and Joining Methods* of the Uniform Plumbing Code is amended by adding *Sections 1209.5.3.4.1, 1209.5.3.4.2 and 1209.5.3.4.3* as follows:

1209.5.3.4.1 Steel piping will be required for the meter loop and into the wall and up thru the top plate with a 90° steel pipe fitting in the attic for the transition.

1209.5.3.4.2 The approved gas regulator for the system shall be installed in a ventilated attic unless the vent is piped to the exterior of the building.

1209.5.3.4.3 When CSST tubing passes behind stucco, plaster or areas where staples are used, it shall be protected by a continuous sleeve or AGA approved shield that is twice the diameter of the CSST tubing being protected.

~~1209.5 is amended as follows:~~

~~1209.5.3.4.1 Steel piping will be required for the meter loop and into the wall and up thru the top plate with a 90° steel pipe fitting in the attic for the transition.~~

~~1209.5.3.4.2 The approved gas regulator for the system shall be installed in a ventilated attic unless the vent is piped to the exterior of the building.~~

~~1209.5.3.4.3 When CSST tubing passes behind stucco, plaster or areas where staples are used, it shall be protected by a continuous sleeve or AGA approved shield that is twice the diameter of the CSST tubing being protected.~~

*Section 1209.5.8.1 Pipe Joints* of the Uniform Plumbing Code is amended by adding *Section 1209.5.8.1.1* as follows:

1209.5.8.1.1 All welded joints in piping system shall be welded by a certified pipe welder as defined in Chapter 2.

*Section 1209.7.5 Venting (A) Line Gas Pressure Regulators (1)* of the Uniform Plumbing Code is amended by deleting the *Exception* found therein.

~~1209.7.5(A) is amended by deleting the exception.~~

*Section 1211.1.2 Protection Against Damage (A) Cover Requirements* of the Uniform Plumbing Code is amended to read as follows:

**1211.1.2 Protection Against Damage (A) Cover Requirements** Underground piping systems shall be installed with a minimum of 18 inches (460 mm) of cover. Where

external damage to the pipe is not likely to result, the minimum cover shall be 12 inches (300 mm). Where a minimum of 12 inches (300 mm) of cover cannot be provided, the pipe shall be installed in conduit or bridged (shielded). When a plastic detectable tape with a metal core is used, it shall be buried in the trench six (6) inches (152 mm) above the pipe or six (6) inches (152 mm) below finished grade and shall be secured to the risers at each end of the line. The plastic tape shall be yellow in color and shall be imprinted with the following: "Caution: Gas Line Buried Below" [NFPA 54:7.1.1]

~~1211.1.2(A) is amended by adding the following:~~

~~When a plastic detectable tape with a metal core is used, it shall be buried in the trench 12" above the pipe or 6" below finished grade and shall be secured to the risers at each end of the line. The plastic tape shall be yellow in color and shall be imprinted with the following: "Caution: Gas Line Buried Below"~~

*Section 1211.1.7 Plastic Pipe (A) Connection of Plastic Piping* of the Uniform Plumbing Code is amended by deleting *Exceptions No. 1 and No 2* found therein.

~~1211.1.7(A) is amended by deleting exceptions 1 & 2~~

*Section 1211.3.5 Piping in Floors* of the Uniform Plumbing Code is amended by deleting the *Exception* found therein.

*Section 1212.1 Connecting Gas Equipment* of the Uniform Plumbing Code is amended by adding number (8) to read as follows:

(8) Gas flex connectors for appliances or equipment installed in exterior locations shall be approved for that use and shall be protected from vandalism and damage.

~~1212.1 is amended by adding (8) to read as follows:~~

~~(8) Gas flex connectors for appliances or equipment installed in exterior locations shall be approved for that use and shall be protected from vandalism and damage.~~

The title to *Appendix E* of the Uniform Plumbing Code is amended to read as follows and to be applicable to all sections of *Appendix E*:

***MANUFACTURED/MOBILE HOME PARKS, SUBDIVISION OR SITE AND RECREATIONAL VEHICLE PARKS***

~~All of the Appendix chapters are adopted~~

~~Appendix E The title is amended to read as follows and to be applicable to all sections of Appendix E:~~

~~Manufactured/Mobile Home Parks, Subdivision or Site and Recreational Vehicle Parks.~~

Section E 6 Drainage Systems of the Uniform Plumbing Code is amended by adding Section E 6.1 as follows:

E 6.1 Manufactured/Mobile Home parks, subdivision or site shall meet the following requirements for the drainage/sewer system on site: The sewer main shall be six (6) inch (152 mm) minimum, with four (4) inch (102 mm) minimum laterals to the M/H pad and a four (4) inch (102 mm) p-trap. There shall be one three (3) inch (76 mm) vent for each 10 traps starting at the upper most point on the system. The vent shall connect to the drain system at the top portion of the drain pipe and terminate a minimum of ten (10) feet (3048 mm) above finish grade. The horizontal run shall be kept as short as reasonably possible.

~~E 6~~ is amended by adding E 6.2 to read as follows:

~~E 6.2 Manufactured / Mobile Home park, subdivision or site shall meet the following requirements for the drainage / sewer system on site.~~

The sewer main shall be 6 inch minimum, with 4 inch minimum laterals to the M/H pad and a 4 inch p-trap. There shall be one 3 inch vent for each 10 traps starting at the upper most point on the system. The vent shall connect to the drain system at the top portion of the drain pipe and terminate a minimum of 10 ft. above finish grade. The horizontal run shall be kept as short as reasonably possible.

~~H103.1~~ is amended by adding the following sentence:

A minimum of 12 minutes retention time is required.

~~H103.2~~ is deleted and is amended to read as follows:

There shall be an adequate number of manholes to provide access for cleaning all areas of an interceptor, one manhole per trap compartment. Manhole covers shall be gas tight in construction having a minimum opening dimension of 20".

~~H105.8.1~~ is amended by adding (5) to read as follows:

(5) All interceptors shall have the liquid volume of the interceptor (in gallons) permanently affixed to the device.

~~H107~~ is amended to read as follows:

An effluent sampling well on all interceptors shall be required. The sample well shall have a riser a minimum of 6" in diameter and shall be installed after the confluence of all waste streams from the facility and prior to discharging into the sanitary sewer

~~collection system. The well shall be perpendicular to the effluent lateral to allow visual observation of the flow stream and provide for sampling of wastewater.~~

~~Table H-1 is amended by adding the following extra steps for jails, prison, nursing homes, schools or similar buildings:~~

~~5) Divide by 8 and then multiply by number of meal times.~~

~~6) The size of grease interceptors larger than 750 gallon capacity may be determined by a Professional Engineer utilizing rational design methodology based on flow volume, retention time of not less than 12 minutes and cleaning cycles.~~

~~Appendix L of the Uniform Plumbing Code is amended by deleting all of Sections L3, L6.1, L6.3, L7 and L8 found therein.~~

~~Appendix L is amended by deleting all of section L3, all of section L6.1 and L6.3.~~

**SECTION 4.** Chapter 6, Article V, Section 24-13 entitled "Penalties" of the City Code of San Antonio, Texas is amended by adding the language that is underlined (added) and deleting the language that is stricken (~~deleted~~) as follows:

**Sec. 24-13. Penalties.**

A violation of any adopted provisions of Article II of this chapter ~~the 1994 Edition of the Uniform Plumbing Code or its new local amendments~~ shall be a Class C misdemeanor punishable by a fine not to exceed five hundred dollars (\$500.00). Each day or portion thereof during which any violation is committed, continued or permitted shall constitute a separate offense for punishment purposes.

**SECTION 5.** All previous provisions of the 2003 Uniform Plumbing Code as adopted by the City of San Antonio, Texas shall remain in full force and effect during the period for which they were enacted. Three (3) copies of the 2006 Uniform Plumbing Code with local amendments have been filed in the office of the city clerk for permanent record and inspection pursuant to section 17 of the City Charter.

**SECTION 6.** Should any Article, Section, Part, Paragraph, Sentence, Phrase, Clause, or Word of this ordinance, or any appendix thereof, for any reason, be held illegal, inoperative, or invalid or if any exception to or limitation upon any general provision herein contained be held to be unconstitutional or invalid or ineffective, the remainder shall, nevertheless, stand effective and valid as if it had been enacted and ordained without the portion held to be unconstitutional or invalid or ineffective.

**SECTION 7.** There is no financial impact as a result of the passage of this ordinance.

**SECTION 8.** No other provision of the City Code of San Antonio is amended hereby. All other provisions shall remain in effect.

**SECTION 9.** The City Clerk for the City of San Antonio is hereby directed to publish notice of this ordinance in a newspaper published in the City of San Antonio, Texas, as required by Article 2, Section 17 of the City Charter of the City of San Antonio.

**SECTION 10.** The publishers of the City Code of San Antonio are authorized to amend said Code to reflect the changes adopted herein, to correct typographical errors and to index, format and number paragraphs to conform to the existing code.

**SECTION 11.** This ordinance shall become effective September 10<sup>th</sup>, 2006.

**PASSED AND APPROVED** this 31<sup>st</sup> day of August, 2006.

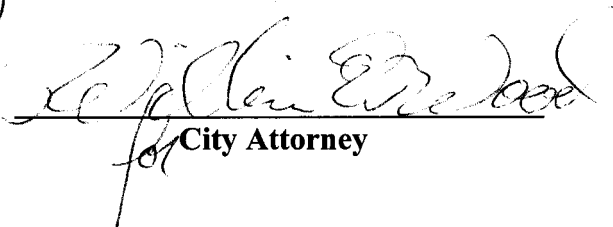
  
M A Y O R

**ATTEST:**

  
City Clerk

**PHIL HARDBERGER**

**APPROVED AS TO FORM:**

  
for City Attorney